DT07 Rec'd PCT/PTO 1 4 OCT 2004

Practitioner's Docket No. 013743.0104PTUS

CHAPTER	11
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Proposed Class:

Unknown

Subclass:

Unknown

TRANSMITTAL LETTER TO THE UNITED STATES ELECTED OFFICE (EO/US)

(ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)

PCT/US2003/013125	28 April 2003	27 April 2002
International Application Number	International Filing Date	International Earliest Priority Date

TITLE OF INVENTION:

Nanocomposite Ceramics Of Oxide And Non-Oxide Phases And Methods For

Producing Same

APPLICANTS:

Rishi Raj, Atanu Saha, Sandeep Shah

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 ATTENTION:EO/US

- 1. Applicant herewith submits to the United States Elected Office (EO/US) the following items under 35 U.S.C. Section 371:
 - a. This express request to immediately begin national examination procedures (35 U.S.C. Section 371(f)).
 - b. The U.S. National Fee (35 U.S.C. Section 371(c)(1)) and other fees (37 C.F.R. Section 1.492) as indicated below:

CERTIFICATION UNDER 37 C.F.R. SECTION 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this paper, along with any document referred to, is being deposited with the United States Postal Service on this date <u>Activity</u> 14, 2004 in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EV389084492US, addressed to Mail Stop PCT, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450, ATTENTION: EO/US.

Elaine C. VonSpreckelsen

(type or print name of person mailing paper)

Signature of person mailing paper

DT05 Rec'd PCT/PT0 1 4 OCT 2004

2. Fees

CLAIMS FEE*	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALC- ULATIONS
	TOTAL CLAIMS	45 -20 =	25	x \$18.00 =	\$450.00
	INDEPEN- DENT CLAIMS	6 - 3 =	3	x \$88.00 =	\$264.00
	MULTIPLE DEP	ENDENT CLAIM(S)	(if applicable) + \$280.	00	\$0.00
BASIC FEE	U.S. PT EXAM Where Section internat PTO:	\$1110.00			
	Total of above Ca	=\$1824.00			
SMALL ENTITY	Reduction by 1/2	for filing by small entit	y, if applicable		- \$912.00
	Subtotal	\$912.00			
	Total National Fe	\$912.00			
	Fee for recording 1.21(h)). See atta	\$ 40.00			
TOTAL	Total Fees enclos	sed			\$952.00

Please charge Account No. 50-1848 in the amount of \$952.00.

- 3. A Combined Declaration And Power Of Attorney signed by the Inventors is enclosed.
- 4. A Recordation Cover Sheet (Form PTO-1595) and PCT Assignment by the Inventors are transmitted herewith.
- II. Other document(s) or information included:
- 5. A full International Search Report (PCT/ISA/220) or Declaration under PCT Article 17(2)(a) has not yet been received. However, an Invitation to Pay Additional Fees Form PTO/ISA/206, including a partial search report, is transmitted herewith.
- 6. An Information Disclosure Statement (Form PTO/SB/08B) under 37 C.F.R. Sections 1.97 and 1.98 is transmitted herewith.

DT05 Rec'd PCT/PT0 1 4 OCT 2004

- 7. Additional documents:
 - a. International Publication No. WO 2003/093193 A2, including specification, claims, and drawings
 - b. Preliminary Amendment
 - c. Application Data Sheet
 - d. Fee Transmittal
 - e. Express Mail Certificate
 - f. Return receipt postcard
- 8. The above items are being transmitted before 30 months from any claimed priority date.

No international examination report (PCT/IPEA/409) has yet been transmitted, but will be forwarded when received.

AUTHORIZATION TO CHARGE ADDITIONAL FEES

The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper and during the entire pendency of this application to Account No. 50-1848.

37 C.F.R. Section 1.492(a)(1), (2), (3), and (4) (filing fees)

37 C.F.R. Section 1.492(b), (c), and (d) (presentation of extra claims)

37 C.F.R. Section 1.17 (application processing fees)

37 C.F.R. Section 1.17(a)(1)-(5) (extension fees pursuant to Section 1.136(a))

37 C.F.R. Section 1.492(e) and (f) (surcharge fees for filing the declaration and/or filing an English translation of an International Application later than 20 months after the priority date).

Date:

Reg. No.: 28,494

Tel. No.: 303-894-6114 Fax No.: 303-894-9239 Signature of Practitioner

Carl A. Forest

Customer No.: 24283

DT05 Rec'd PCT/PT0 1 4 OCT 2004

Certificate	of Mailing	under 37	CFR 1.10
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Application Number	Applied For
Filing Date	Herewith
First Named Inventor	Rishi Raj
Examiner Name	Unknown
Attorney Docket Number	013743.0104PTUS

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage in an Express Mail envelope bearing label number: EV389084492US addressed to:

> Mail Stop PCT Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450

Attention: EO/US

On <u>October 14, 2004</u>. (Date)

Elaine C. VonSpreckelsen

Elaine C. Von Spreshelan Signature

Typed or printed name of person signing Certificate

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Documents submitted with this Certificate of Mailing if more than one:

1.	Transmittal Letter To The United States Elected Office (3 pages)
2.	Fee Transmittal Form PTO/SB/17 (2 for a total of 2 pages)
3.	Preliminary Amendment (8 pages)
4.	Copy of International Publication No. WO 03/093193 A2, including
	specification, claims, and drawings (22 pages)
5.	Combined Declaration And Power Of Attorney (2 pages)
6.	Application Data Sheet (4 pages)
7.	Recordation Form Cover Sheet Form PTO-1595 (1 page)
8.	PCT Assignment (3 pages)
9.	Copy of Invitation To Pay Additional Fees Form PCT/ISA/206, including partial search report (6 pages)
10.	Information Disclosure Statement Form PTO/SB/08b (1 page)
11.	Copies of IDS References (3 Other)
12.	Return Receipt Postcard

10/511464

PTO/SB/17 (10-04v2) Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and

Under the Paperwork Reduction A

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unless it displays a	valid OMB control number

FEE TRANSMITTAL for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(3	952

	DT05 Recide PCF/PFO	1 4 OCT 2004	
Application Number	Applied For	- 1 001 2004	
Filing Date	Herewith		
First Named Inventor	Rishi Raj		
Examiner Name	Unknown		
Art Unit	Unknown		
Attemory Decket No.	013743 0104PTUS		

METHOD OF PAYMENT (check all that apply)						FE	E CALCULATION (continued)	
☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None				NAL FE				
Order Deposit Account:			Entity	Small E	intity			
Deposit			Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description Fe	e Paid
Account	50-1848		1051	130	2051	65	Surcharge - late filing fee or oath	
Number			1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit Account	Patton Boggs LLP		1053	130	1053	130	Non-English specification	
Name	. S.		1812	2,520	1812	2,520	For filing a request for ex parte reexamination	\
	uthorized to: (check all that apply) ndicated below	mayments	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
☐ Charge any ad☐ Charge fee(s)	ditional fee(s) or any underpayment ndicated below, except for the filli	of fee(s)	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
to the above-ident	ified deposit account.		1251	110	2251	55	Extension for reply within first month	
	FEE CALCULATION	***************************************	1252	430	2252	215	Extension for reply within second month	
	ILING FEE		1253	980	2253	490	Extension for reply within third month	
	Small Entity		1254	1,530	2254	765	Extension for reply within fourth month	
	ee Fee <u>Fee Description</u> Code (\$)	Fee Paid	1255	2,080	2255	1,040	Extension for reply within fifth month	
1	2001 395 Utility filing fee	1,001,010	1401	340	2401	170	Notice of Appeal	
1002 350 2	2002 175 Design filing fee		1402	340	2402	170	Filing a brief in support of an appeal	
1003 550 2	2003 275 Plant filing fee		1403	300	2403	150	Request for oral hearing	
1004 790	2004 395 Reissue filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160 2	2005 80 Provisional filling fee		1452	110	2452	55	Petition to revive – unavoidable	
,	SUBTOTAL (1)	(6) 0	1453	1,370	2453	685	Petition to revive – unintentional	
	SUBTOTAL (1)	(\$) 0	1501	1,370	2501	685	Utility issue fee (or reissue)	
2. EXTRA CLA	IM FEES FOR UTILITY AND I	REISSUE	1502	490	2502	245	Design issue fee	
	Fee f		1503	660	2503	330	Plant issue fee	
Total Claims 45	-20 ** = 25 X 9	w Fee Paid = 225	1460	130	1460	130	Petitions to the Commissioner	
Independent		= =	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
Claims 6	-3 ** = 3 X 44	= 132	1806	180	1806	180	Submission of Information Disclosure Stmt	
Multiple Dependent	x	= 0	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
Large Entity	Small Entity		1809	790	2809	395	Filing a submission after final rejection	
Fee Fee	Fee Fee Pescription		1		ĺ		(37 CFR § 1.129(a))	
Code (\$) 1202 18	Code (\$) Fee Description 2202 9 Claims in excess	of 20	1810	790	2810	395	For each additional invention to be	
1202 18	2202 9 Claims in excess 2201 44 Independent dair		1				examined (37 CFR § 1.129(b))	
1203 300		nt claim, if not paid	1801	790	2801	395	Request for Continued Examination (RCE)	
1204 88	original patent	endent daims over	1802	900	1802	900	Request for expedited examination of a design application	
1205 18	2205 9 ** Reissue daims over original pate	in excess of 20 and					•	-
	1		Other f	ee (spec	ify) <u>(1613</u>) Natior	nal Phase Fee filing with EPO search report	555
	SUBTOTAL (2)	(\$) 357	*Redu	ced by B	asic Filin	g Fee P		<u></u>
**or number previ	**or number previously paid, if greater; For Reissues, see above						SUBTOTAL (3) (\$) 59	10

SUBMITTED BY Complete (if applicable) Carl A. Forest Name (Print/Type) Registration No. (Attorney/Agent) 28,494 303-894-6114 Telephone Signature October 14, 2004

> WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.